

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicant : Joseph Giovannoli, BE, JD

Title of Invention : COMPUTERIZED QUOTATION SYSTEM  
AND METHOD

Issued Patent No. : 5,842,178

Date Issued : November 24, 1998

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Enclosed for filing, please find an executed Reissue Declaration and Power of Attorney,  
Surrender of the Original Patent, Request for Transfer of Drawings, Reissue of 5,842,178 and  
original Patent No. 5,842,178.

Respectfully submitted,

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DATED: April 28, 2000

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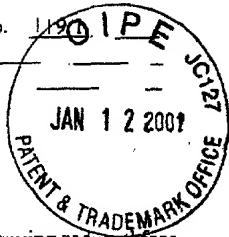
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Applicant or Patentee: Joseph Giovannoli  
Serial or Patent No.: 09/703,549  
Title: COMPUTERIZED QUOTATION SYSTEM AND METHOD

Attorney's Docket No. 11201 P E  
Filed or Issued: 5/1/00



**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS**  
(37 CFR 1.9(f) AND 1.27(b) - INDEPENDENT INVENTOR)

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled described in

the specification filed herewith  
 application Serial No. 09/703,549, filed 5/1/00  
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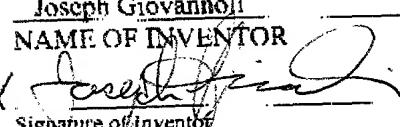
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Joseph Giovannoli

NAME OF INVENTOR

  
Signature of Inventor

X 1-3-2001

Date

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Date

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COMPUTERIZED QUOTATION SYSTEM  
AND METHOD

This application is a continuation of application Ser. No. 08/603,906 filed Feb. 22, 1996 now U.S. Pat. No. 5,758,328 under C.F.R. 1.60.

FIELD OF THE INVENTION

This invention relates generally to a computerized system forming a computer based communications network of buyer and vendor members for processing requests for quotation for goods and/or services from network members or their representatives and for linking buyers to sellers through the computer based communications network of network members having means for selectively controlling the linkage between network members in accordance with filter conditions of the buyers and/or sellers as well as filter conditions established by the computerized system. The filter conditions determine which of the network sellers will receive a buyer's request for quotation. More particularly this invention relates to a computerized system forming a computer based communications network between network members having filter means for controlling the communication linkage between such network members based upon chosen filter conditions set up by the network members and the system to satisfy one or more requests for quotation from the network members.

BACKGROUND OF INVENTION

Buyers in need of goods and services often spend considerable time locating an appropriate vendor. Buyers use trade publications, directories, recommendations, and other means to locate vendors. If the type of vendor needed is in a foreign country, the problem compounds. Vendors advertise through various media and by direct sales methods to make known to potential buyers what they sell and how to contact them. Once a buyer identifies a few vendors, each must be contacted to obtain product or service price and availability information. This is a time consuming process and companies typically rely on experienced purchasing staff to accomplish it. In addition, when buyers must sell surplus inventory from time to time they must advertise, cold call, sell to brokers or the like. These processes are costly and time consuming for most businesses.

The prior art describes computerized shopping systems which employ some kind of central database of goods and services offered to buyers. Information about the goods and services offered is stored centrally and must be kept current centrally. The volume of information required to be maintained and updated in a central database system restricts it to a limited type or number of goods and services or number of vendors it can offer. It is not feasible for such systems to provide access to all standard goods and services and all suppliers world wide. For such a central database to exist, the amount of information to be stored would be awesome as would be the task of keeping it current. It simply is not feasible for central database systems to satisfy the need of buyers to receive timely quotes on an enormous variety of goods and services from vendors anywhere in the world. For this reason existing centralized database systems are created and maintained by the one or a few vendors whose goods and prices are displayed. These systems necessarily restrict a buyer's choice of vendors.

These systems are like electronic supermarkets which are owned by a single company or an association of suppliers. In such systems a vendor provides its database of goods

and/or services to a buyer who orders items from the vendor's database. It is analogous to walking into a vendor's store and selecting items from the vendor's available stock. Another such system is analogous to shopping in a mall. In 5 this case a number of (complementary) vendors combine to offer their collective inventory to the buyer through individual databases or a combined database of available goods or services. In yet another existing system a primary seller, such as an insurance agency, offers to provide buyers 10 premium quotations from the insurance carriers for which the agency is an agent.

In all of the above cases the vendors responding to the buyers request regarding a particular good or service are either the service provider or a vendor with whom the 15 service provider is involved in another business relationship such as advertisers in a common publication or affiliated insurance carriers. These select vendors provide the product and pricing information supplied by the system to buyers. These systems have no capacity to offer an unlimited number 20 of goods and services from any number of vendors who wish to become members of the system. This would require an unrealistically large central database containing information about products, services and vendors. Each vendor would be required to provide detailed information to the 25 central database about its product lines and would be required to update them daily. Accordingly, existing systems are very specialized electronic buying services with a limited selection of goods, services, and vendors. In addition, buyers wishing to sell surplus inventory from time to time 30 cannot use these systems for that purpose.

The present invention is analogous to a cross between telephone and broadcasting technologies. It is this difference which creates the opportunity for buyers to relate to vendors without a rigid structure operating through a centralized 35 computer database as required by existing methods.

#### SUMMARY OF THE INVENTION

The present invention is a computerized system forming 40 a computer based communications network for processing requests for quotation for goods and/or services by broadcasting such requests to network members of the computerized system over any conventional transmitting medium, such as the Internet, to which the computerized system may 45 be connected. No central database of goods, prices, etc. is involved. Instead, buyers formulate requests for quotation and transmit them to the computerized network which broadcasts the request for quotation of one or more specified standard products to prospective sellers based on filter 50 conditions set by the buyer and/or the seller and/or the network operator. The filter compatible sellers' responses are communicated to the prospective buyer either over the communications network or via other acceptable communications means. Their responses are processed by the quotation system and submitted to the requesting buyer.

The method of the present invention processes requests 55 for quotation for goods and/or services from a buyer or supplier of goods and/or services through a computerized system forming a computer based communications network of network members for linking buyers to suppliers with the computerized system having at least one central processing unit including operating system software for controlling the central processing unit and storage means containing the identification of the network members, wherein the method 65 comprises a computerized system receiving a buyer's request for quotation over a communication network; selecting one or more appropriate vendors to receive the buyer's

request for quotation based on filter conditions, if any, set by the buyer, vendor and the network software; transmitting or making available the buyer's request for quotation to said selected vendors over a communications network; and said selected vendors communicating their quotations either 5 directly to the buyer or to the computerized system which in turn makes available or transmits said received quotations to the requesting buyer.

The computerized system of the present invention forms a computer based communications network for processing requests for quotation for goods and/or services through at least one central processing unit with said computerized system comprising operating system software for controlling the central processing unit and storage means containing appropriate identity and other information about members of the network, means for potential buyers of product and/or services to transmit a request for quotation to said central processing unit, means for said central processing unit to selectively broadcast or make available said request for quotation to selected network vendor members, means for 10 said vendor members to respond directly to the requesting buyer or to said central processing unit and means for transmitting or making available from said central processing unit vendor's quotations to the requesting potential buyers. 15 20 25

#### BRIEF DESCRIPTION OF THE DRAWINGS

The following detailed description may best be understood by reference to the following description in conjunction with the accompanying drawings in which: 30

FIG. 1. shows a network diagram of the computerized system of the present invention where the Internet is the communications network;

FIG. 2. shows a block diagram representing how a buyer 35 interacts with the computerized system of this invention via the Internet;

FIG. 3. is a block diagram of how a vendor's offer of items for special sale is communicated to network buyer members; 40

FIG. 4. is a data flow diagram linking vendors and buyers to a hypothetical central office arranged to demonstrate an embodiment of the quotation system of this invention;

FIG. 5. and FIG. 6. show logic for processing requests for quotation such that all filter conditions are met and a 45 predetermined number of vendor responses are returned to the requesting buyer;

FIG. 7 shows a hypothetical list of options for use in preparing requests for quotation to be routed over the network. It is one embodiment of data structures suitable for 50 buyers and vendors to interact via the quotation system network of this invention;

FIG. 8. shows a hypothetical illustration of a request for quotation. 55

#### DETAILED DESCRIPTION OF THE INVENTION

The present invention is a computerized quotation system forming a computer based communications network for processing requests for quotation for goods and services 60 from respective buyers or vendors who broadcast such requests to network members of the computerized system. There is no central pricing database to limit the number of buyers and vendors of goods and services or to limit the number of goods and services which can be processed. 65 However the goods and services must be standard items to ensure that there is no confusion as to what buyers are

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requesting and what sellers are offering to buyers. FIG. 1 shows the system of this invention as configured using the Internet as the communications network.

A network member is anyone or any company which has registered as a user by completing an application and can be a buyer and/or a vendor in using the services provided by the computerized system of the present invention. The programming (e.g. Internet HTML pages or quotation system provided software) which enables network members to interact with the network would include information sufficient for network members to identify standard goods or services that they wish to identify in a request for quotation. Standardization of product or service descriptions is essential to avoid confusion unless a more text oriented specification is appropriate to the product or service type. To this end preprogrammed menu information is provided to classify product and services in categories broken down by functional class and subclass corresponding to the products as they are commercially known and identified. Such menus are readily upgraded to include new and revised commercially available products and services from the manufacturers or suppliers of such products and services. Buyers would use this information to prepare requests for quotation which will then be clearly understood by vendors. This product and other information and programming or software could be made available to network members either by direct electronic transfer to the user's personal computer or by providing information, software, or data on computer disks, compact disks, or other appropriate means. Providing standardized information to network users is necessary to correlate product and service identifications for buyers and vendors among other system maintenance functions. FIG. 4 shows how information would flow in an Internet embodiment of this invention. The quotation system central office would maintain its Internet site HTML pages and other necessary items by communication with its HTML World Wide Web server. It would download from the Web site requests for membership as well as requests for quotation. The Central Office would process RFQs through appropriate software and would wait for vendors to contact the Central Office FTP site. Vendors would use quotation system supplied software to cross reference their inventory to link with product lists used by the quotation system. When contacted the Central Office would acquire via suitable vendor software the RFQ information required and available from the vendors product database. If the vendor has prepared information relating to special sales, this information would be transferred to the Central Office at this time. Software version and list upgrades would be performed as well. When the FTP transfers are complete, the Central Office would prepare RFQ e-mail for requesting buyers and forward same as required.

New vendors may apply for membership using the quotation system's World Wide Web application form or by contacting quotation system offices by other means. Buyer members would access the quotation system's World Wide Web site and apply for membership or request price quotations or other available information, such as a trade publication search engine or statistical charts of price versus time by product, provided through the quotation system's Web site. New members would receive password information via e-mail to ensure that applicants have provided correct e-mail coordinates.

The invention can be understood readily from the following description of the preferred embodiment in conjunction with the flow diagram of FIG. 2 in which communication between buyers, sellers and the network computer(s) is

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completed using the Internet. A World wide Web home page is set up to provide access to the network by Internet members. A potential user accesses the Internet using any standard Web browser and becomes a quotation network user by completing a registration application providing necessary data about itself. Once registered, a member can access the forms necessary for preparing a request for quotation ("RFQ"), which will be described in greater detail hereafter. The RFQ is subsequently downloaded to a quotation system central office computer through a file transfer protocol (FTP) connection to the Internet Web server.

The RFQ is then processed to select vendors who are capable of quoting on the RFQ and who meet any other conditions set by the requesting buyer (e.g. language, currency, or vendor location). In addition, vendors may "deselect" themselves from quoting on certain types of RFQs by registering their preferences with the quotation system to avoid receiving RFQs of certain types. The buyer and vendor filters may represent in their simplest form defined classes of suppliers and/or buyers and may extend to delineate conditions of sale and/or purchase. Limitations or conditions included in the RFQ and/or in the response are defined for purposes of the present application as filter information or simply "filters". Filtering performed by a quotation system computer may simply involve limiting the network members to whom the RFQ is given and/or to whom responses are given or may be a more complex selection process. Part of the process of selecting vendors involves quotation system business arrangements and other considerations. An example of this would be providing vendors varying categories of service which may require prioritizing the vendors according to a formula. In this way, by the category of service they choose, vendors may determine the percentage of RFQs they receive from a given number received by the quotation system. FIG. 5 and FIG. 6 show sample logic for processing filter conditions to accomplish vendor selection for a given RFQ. FIG. 7 shows hypothetical buyer and vendor information items which could comprise the RFQ data packet.

Once vendors are selected to receive RFQs, the RFQ information may be transmitted to them via FTP over the Internet, however, a preferred way would be to provide vendors with software which permits them to schedule when they wish to communicate with the quotation system. In this case, the vendor software would contact the quotation system over the Internet via FTP; the quotation system would interrogate the vendor's product database (using suitable software which links or cross references the vendor's inventory to the quotation system product and services lists) and retrieve pricing and other information necessary to respond to the RFQ; and thereafter prepare e-mail to be sent to the requesting buyer member. FIG. 8 shows one possible arrangement of RFQ data which would be e-mailed to a buyer. In this example a request for quotation is sent for 5,000 OH006-2000636 type J resistors manufactured by Ohmite for delivery by Aug. 1, 1993. The buyer indicates that the delivery date is firm. Other information such as RFQ date, tracking number and product code are shown. In this case the sender has specified that this request for quotation be routed to vendors in the state of New Jersey USA only. The lower portion of FIG. 6 shows a response from for example Acme Supply, Inc. together with pricing, contact information, delivery and vendor notes indicating that the request can be "Shipped 1000 per box from inventory, subject to prior sale." The e-mail could be configured as HTML pages and read as HTML by the buyer's browser directly or via application helper software provided by the

quotation system. One advantage to providing buyers with HTML type e-mail quotations is that hypertext links can be embedded in the quotation along with data about the quotation which would permit the buyer to select a response option directly from the quotation HTML page. The option may be to request that an e-mail purchase order be sent to a vendor and that the buyer's credit information, e.g. on file with the quotation system, be used to effectuate automatically a credit purchase of the quoted product. Other alternatives include providing quotations to buyers via FTP or through interaction with the quotation system World Wide Web Internet site. As an alternative, communications between buyers and sellers may be by telephone, e-mail or other means.

15     Shipping companies can be included in the process if a credit purchase conditions the vendor's payment on confirmation from the shipper that the delivery has been received and accepted by the buyer. The quotation system would verify the buyer's credit and notify the vendor of the purchase order and credit code. When the vendor ships the package using a participating shipper and the buyer accepts the goods, the shipper would communicate the delivery acceptance to the quotation system computer or directly to the credit provider to permit release of funds to the vendors account. This would be particularly useful in international transactions.

Although the above example uses the Internet as the communications network between buyers, sellers and the quotation system computer, other computer communications arrangements can be used as well. Also, although the quotation computer system may execute all functions using one node on a communications network, it is equally suitable to have multiple nodes at many sites to service all network users. FIG. 1 shows two such quotation system central computers. In this event, all nodes would intercommunicate as required to complete routing of user information and other functions.

The quotation system computer is schematically shown in FIG. 4 as the "Central Office" and includes a random access memory for temporary storage of information, a read only memory for permanent storage of the computer's configuration and basic operating commands, an input/output adapter for connecting peripheral devices and known input and interface devices. Visual output is provided by display adapters and display devices. The network computer is controlled by one or more central processing units which may include a conventional microprocessor and a number of other units interconnected via a system bus. Any operating system may be resident on the computer. Programming for the buyer's and vendor's computer type equipment would be appropriate to the variety of goods and services buyers and vendors wish to sell over the network and would change as new goods and services come into existence and old ones are discontinued.

55     FIG. 3 shows in block diagram a process by which vendors may offer items "on sale" to quotation system buyers. In this case, buyers will be informed of the sale if they identify or have identified the product or its category to the quotation system and provided the vendor has defined filter conditions which include the buyer in the class of buyers to which the vendor wishes to communicate its "on sale" offer.

Limiting the class of recipients may be used by large organizations to communicate exclusively to other members of their organization. For example, large corporations may make special sale offers exclusively to their employees.

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Alternatively, general users can offer to donate products exclusively to charitable or not for profit organizations.

The process of the present invention begins when a buyer prepares a network compatible request for quotation (RFQ). The buyer additionally may prepare or has previously prepared a definition of the class of vendor to receive the request. The request or requests are telecommunicated to a quotation network computer and is thereafter routed to the specified class of vendors consistent with network software and vendor requirements or conditions, if any. Vendors in the defined class respond to the buyer's request for quotation and the buyer may purchase from a responding vendor. The number of vendors within the specified class will depend on the buyer's class specification. For example, a buyer who specifies vendors of volt meters in New York State will reach more vendors than if New York City alone were specified. Such class specifications are information filters through which only the desired vendors can pass. By joining the network, all vendors are potential class members no matter where in the world they are located. In addition, a vendor may choose to filter out requests for quotation for other than a vendor defined class of requests for quotation, e.g., requests must be for at least 10,000 pieces or for goods produced by a specific manufacturer. The computerized system may also add a filter, for example, to reflect the type of service selected by the buyer and/or vendor. The network computer's filter may time sequence routing of the buyer's request based on the vendor's distance from the buyer's location. This would give vendors with the lowest shipping charges earlier access to the buyer's request and would give the buyer an opportunity to cancel further routings of its request if responses indicate that more distant vendors are not likely to provide more competitive quotes than those already received.

When a vendor wants to receive requests for quotation over the network, the vendor notifies the network of the class of goods or services in which the vendor deals (a "request for quotation class definition"). This can be communicated by voice, telephone, fax, et cetera, or by use of programming provided for that purpose but the preferred method is to use programming provided for that purpose by the network. The request for quotation class definition is transmitted to the network and the network uses that definition to filter all requests for quotation routed to the vendor, i.e., to the class defined by a buyer of which the vendor is a member. In this way the vendor receives only those requests for quotation which conform to the vendor's request for quotation definition. The number of vendors within a class to receive a request for quotation may be very large. To keep the process manageable network software may be arranged to limit the number of vendors to receive a request for quotation.

By using the present invention, a network member buyer in Frankfurt, Germany who requests a quotation for an electronic part may receive quotations within minutes from previously unknown network member vendors in Cupertino, Calif. and Kyoto, Japan.

Where appropriate, programming would enable the user to receive, review, and reply to responses from network users. Programming would be tailored to the various types of request for response network users require. Users can be buyers and/or vendors. When a user wants to buy something,

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the programming for preparing a request for quotation is invoked on the user's computer or computer like device. When a user wants to sell something, a request for quotation class definition is prepared using programming provided for that purpose. A typical situation in which a user who is predominantly a buyer may choose to be a vendor is when the user overstocks an item and chooses to resell the surplus inventory via the network. To sell surplus inventory without the network of this invention requires advertising, word of mouth, cold calling, sale to a broker or the like. In addition, the network software could be arranged to enable vendors to donate unwanted equipment, et cetera, to charity network members. In addition, the network filters could be defined to permit intra organizational notices of availability or requirements for products or services, especially in large distributed corporations or governmental agencies.

The network is a routing service with the routing being controlled by class description filters which can be specified by the buyer, the network computer, and the vendors. By analogy, it is like a cross between a telephone call and a radio broadcast where the ultimate recipient is neither an individual nor a mass audience, but a class of recipients identified by their characteristics. In the preferred embodiment the vendor class of network members are filtered to be selected based on their likelihood to respond to the request for quotation. Alternatively, or in addition, the vendor responses may likewise be filtered to satisfy conditions of the vendors responding or in accordance with predefined conditions for facilitating a linkage between the prospective buyer and an acceptable seller.

What we claim is:

1. A system for engaging in commercial transactions, comprising;

35 filter means for accepting filter conditions from buyers and sellers;

a plurality of buyers for communicating RFQs to said filter means;

40 a plurality of sellers for communicating quotes to said filter means in response to said RFQs, said filter means including means for determining, based upon said filter conditions, which sellers should receive RFQs from a buyer, and which quotes should be received by the buyer.

45 2. A method of utilizing a data network for advertising and selling items for sale by a seller including the steps of:

communicating, to the centralized filter means, from said seller, sale information indicating items offered for sale and at least one class of buyers to receive sale information;

50 communicating, to the centralized filter means, from a potential buyer, a category of item in which said buyer is interested;

55 using said filter means to match buyer and seller supplied information;

communicating an offer for sale from said seller for at least one item in said category of items indicated, to a buyer if said buyer is within said class and said items are within said category.

\* \* \* \* \*

3. A method for effectuating a purchase between a buyer and a seller over a communications network, comprising the steps of:  
providing over said network a hypertext link containing page including information of a seller's offer and at least one hypertext link for said buyer to make a response;  
displaying said hypertext link containing page to said buyer; and  
sending a purchase request by said buyer by clicking on said hypertext link.

4. The method of claim 3 wherein said step of sending a purchase request is completed by simply clicking on said hypertext link without inputting further information.

5. The method of claim 3 wherein said purchase request includes a consent that said seller is authorized to use buyer's credit information to fulfill said purchase.

6. The method of claim 5 wherein said step of sending a purchase request is completed by clicking on said hypertext link.

7. The method of claim 6 wherein said action of clicking is taken only once.

8. The method of claim 5 wherein said credit information includes buyer's billing and shipping information sufficient to effectuate the purchase.

9. The method of claim 8 wherein said buyer's credit information is pre-stored in a server.

10. The method of claim 9 wherein said server is remotely accessible by said seller through said network.

11. The method of claim 3 wherein said hypertext link containing page is an email message.

12. The method of claim 3 wherein said hypertext link containing page is a web page.

13. The method of claim 3 wherein said purchase request is sent as an email request by clicking on said hypertext link.

14. The method of claim 3 wherein said purchase request is sent directly to said seller by clicking on said hypertext link.

15. The method of claim 3 wherein said hypertext link containing page includes at least one hypertext link for further showing said information of said offer.

16. The method of claim 3 wherein said hypertext link containing page is provided by said seller directly to said buyer.
17. The method of claim 3 wherein said hypertext link containing page is provided by a central processing unit remotely accessible by said buyer and said seller through said communications network.
18. The method of claim 3 wherein said purchase request is sent to said central processing unit.
19. The method of claim 3 wherein said step of displaying is implemented by a browser.
20. A method of effectuating a purchase between a buyer and a seller over a communications network, comprising the steps of:
  - a. providing credit information of said buyer to a server;
  - b. providing over said network, from said seller to said buyer, a hypertext link containing page including information of a seller's offer and at least one hypertext link for said buyer to make a response;
  - c. displaying said hypertext link containing page to said buyer;
  - d. sending a purchase request by said buyer by clicking on said hypertext link; and
  - e. fulfilling said purchase upon receipt of said purchase request from said buyer.
21. The method of claim 20 wherein said server is maintained by a central processing unit remotely accessible by said buyer and said server through said network.
22. The method of claim 21 wherein said step c) is carried out by said central processing unit.
23. The method of claim 20 wherein said step c) is carried out by said seller.
24. The method of claim 20 wherein said hypertext link containing page is an email message.
25. The method of claim 20 wherein said hypertext link containing page is a web page.
26. The method of claim 20 wherein at step d) said purchase request is directly sent to said seller.

27. The method of claim 21 wherein at step d) said purchase request is sent to said central processing unit.

28. the method of claim 20 further including a step of:  
retrieving by said seller, upon receipt of said purchase request from said buyer, of said buyer's credit information kept on said server so as to fulfill said purchase.

29. The method of claim 28 wherein said step e) comprises a step of clearing credit of said buyer directly by said seller.

30. The method of claim 21 wherein said step e) comprises a step of clearing credit of said buyer by said central processing unit.

31. A computerized system for effectuating a purchase between a buyer and a seller over a communications network, comprising:  
means for said seller to provide a hypertext link containing page including information of at least one offer and at least one hypertext link for said buyer to make a response;  
means for said seller to transmit said hypertext link containing page to said buyer;  
means for said buyer to receive and display said hypertext link containing page; and  
means for said buyer to click on said hypertext link to send a purchase request in response to said offer.

32. The system of claim 31 further comprising means for keeping credit information of said buyer that is accessible to said seller.

33. The system of claim 32 wherein said means for keeping buyer's credit information is accessible to said seller only upon receipt of said purchase request from said buyer.

34. The system of claim 33 wherein said purchase request includes an identifier for said buyer with which said seller may access said buyer's credit information.

35. The system of claim 32 wherein said means for keeping buyer's credit information is a server.

36. The system of claim 35 wherein said server is remotely located from both said buyer and said seller, and is connected to said buyer and said seller through said network.

37. The system of claim 31 wherein said hypertext link containing page is an email message.

38. The system of claim 31 wherein said hypertext link containing page further comprises at least one hypertext link for further showing said information of said quotation offer.

39. The system of claim 32 further including means for inputting said buyer's credit information into said means for keeping said buyer's credit information.

40. The system of claim 31 further including a website of said seller, accessible by said buyer through said network, for providing said hypertext link containing page to said buyer.

41. The system of claim 40 wherein said network is an Internet network.

42. A method of enabling a buyer to purchase an item over a communications network from a remote system, the method comprising the steps of:  
selecting a hypertext link indicative of a desire to place an electronic purchase order;  
in response to said step of selecting, transmitting at least one electronic purchase order to a seller; and  
in response to said step of transmitting, providing credit information of the buyer maintained at said remote system to complete the purchase of said item.

43. A method of enabling a buyer to purchase an item over a communications network from a remote system, the method comprising the steps of:  
selecting a hypertext link indicative of a desire to place an electronic purchase order;  
in response to said step of selecting, verifying that the buyer has sufficient credit to make the intended purchase; and  
in further response to said step of selecting, transmitting electronically credit verification information and at least one purchase order to the seller.

44. A method of purchasing an item over a communications network from a system that facilitates the selling of goods and services comprising the steps of:  
prestoring credit information of a buyer, and  
in response to selection of a hyperlink by a buyer indicating a purchase, matching said prestored information with said buyer to complete said purchase.



US005842178A

**United States Patent [19]**

Giovannoli

[11] Patent Number: 5,842,178

[45] Date of Patent: Nov. 24, 1998

[54] COMPUTERIZED QUOTATION SYSTEM  
AND METHOD[76] Inventor: Joseph Giovannoli, 30 Bayberry Dr.,  
Saddle River, N.J. 07485

[21] Appl. No.: 15,705

[22] Filed: Jan. 30, 1998

## Related U.S. Application Data

[63] Continuation of Ser. No. 603,906, Feb. 22, 1996, Pat. No.  
5,758,328.

[51] Int. Cl.° G06F 17/60

[52] U.S. Cl. 705/26; 705/37

[58] Field of Search 705/26, 37

## [56] References Cited

## U.S. PATENT DOCUMENTS

4,799,156 1/1989 Shavit et al. .... 705/26  
4,992,940 2/1991 Dworkin ..... 705/26

Primary Examiner—Edward R. Cosimano

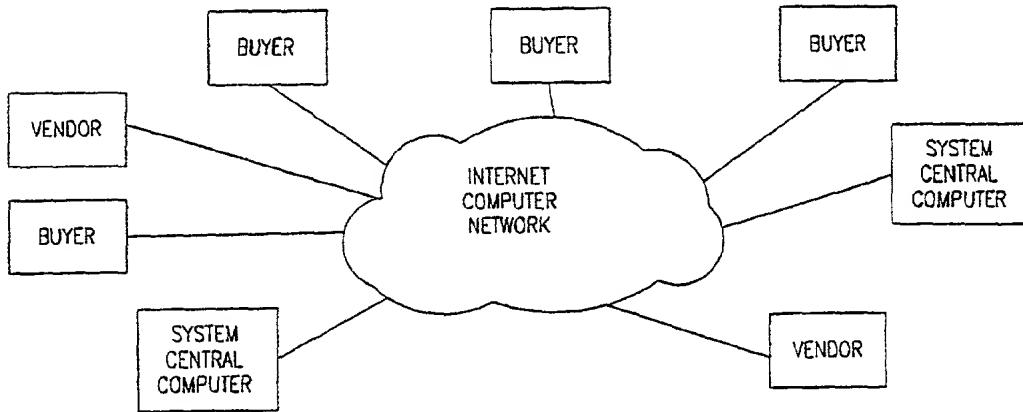
Assistant Examiner—Phillip Groutt

Attorney, Agent, or Firm—Kaplan &amp; Gilman, LLP

## [57] ABSTRACT

A computerized system for forming a computer based communications network of network members inclusive of network buyers and/or network vendors for processing requests for quotation for goods and services through at least one central processing unit including operating system software for controlling the central processing unit, storage means containing the identification of network members, means for network buyers to generate request for quotation for goods and/or services, means for transmitting said request for quotation to said central processing unit, filter means for selecting appropriate network members to receive said request for quotation based on filter conditions defined by the buyer in said request for quotation and/or by the vendor and/or by the central processing unit, means for broadcasting said request for quotation to the network members selected by said filter means and means for responding to the generator of said request for quotation with either a response to said request for quotation or with a list of said selected network members. Filter conditions may define the class of vendors in terms of geographical location, quantity, language spoken, currency, special conditions of sale, and the like.

2 Claims, 9 Drawing Sheets





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application for reissue of U.S. Patent No. 5,842,178

Patentee: Joseph Giovannoli

Title: COMPUTERIZED QUOTATION SYSTEM AND METHOD

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**REQUEST FOR TRANSFER OF DRAWINGS**

Assistant Commissioner of Patents and Trademarks  
Washington, DC 20231

Sir:

Please transfer the formal drawings of Figs. 1-8 (9 sheets) from applicant's prior U.S. Patent No. 5,842,178, issued November 24, 1998 to the new reissue patent application filed herewith.

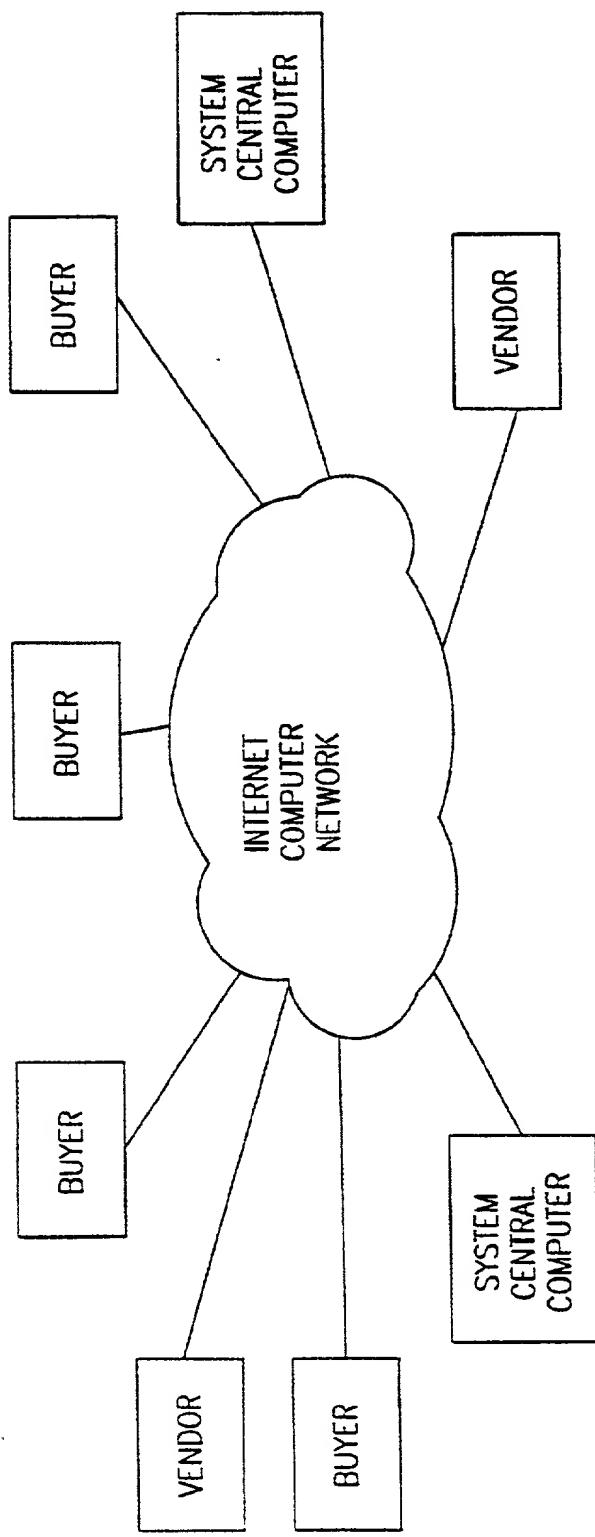
Respectfully submitted,

KAPLAN & GILMAN, L.L.P.  
900 Route 9 North  
Woodbridge, NJ 07095  
Telephone (732) 624-7634

By: \_\_\_\_\_

Jeffrey I. Kaplan  
(Reg. No. 34,356)

DATED:



*FIG. 1*

THE PRICE QUOTATION SYSTEM PROVIDES AN INTERNET HOME PAGE FOR USERS WHO HAVE:

1. SOFTWARE TO ACCESS THE INTERNET (WORLD WIDE WEB)
2. ACCESS TO THE INTERNET VIA A LOCAL ACCESS PROVIDER

THE USER CONNECTS TO THE INTERNET AND ACCESSES THE QUOTATION SYSTEM INTERNET ADDRESS. ONCE ACCESSED, THE SYSTEM PROVIDES A LIST OF OPTIONS, ONE OF WHICH IS "DO YOU WANT TO REQUEST A PRICE QUOTATION?. THE BUYER SELECTS THIS OPTION.

THE BUYER NEXT SELECTS A PRODUCT TYPE, e.g.  
COMPUTER PRODUCTS  
APPLIANCES  
ELECTRONIC PARTS AND COMPONENTS  
ET CETERA

THE BUYER REQUESTS A QUOTATION FOR EITHER:  
A CATALOGUE OF ITEMS (e.g. PERSONAL COMPUTER MONITORS); OR  
A SPECIFIC ITEM (e.g. SEGATE MODEL 225 HARD DISK DRIVE)

ONCE SELECTED, THE BUYER SUBMITS THE REQUEST BY SELECTING AN OPTION ON THE INTERNET SITE REQUEST FORM.

THE QUOTATION SYSTEM PROCESSES THE REQUEST BY SELECTING A CLASS OF VENDORS WHO SELL THE REQUESTED PRODUCT(S) AND MEET THE FILTER REQUIREMENTS OF THE BUYER, VENDOR, AND THE QUOTATION SYSTEM. THE QUOTATION SYSTEM THEN MAKES AVAILABLE THE REQUEST(S) TO EACH SELECTED VENDOR VIA FILE TRANSFER PROTOCOL (FTP) OR E-MAIL.

EACH SELECTED VENDOR RESPONDS TO THE REQUEST(S) BY PROVIDING ITS PRICING AND OTHER INFORMATION TO THE QUOTATION SYSTEM. THIS IS DONE AUTOMATICALLY USING SOFTWARE PROVIDED BY THE QUOTATION SYSTEM TO EACH VENDOR. VENDOR SOFTWARE CONNECTS WITH THE QUOTATION SYSTEM ON A VENDOR DETERMINED SCHEDULE FOR THE PURPOSE OF RECEIVING REQUESTS FOR QUOTATION AND RESPONDING THERETO WITH INVENTORY AND PRICING INFORMATION. EACH VENDOR KEEPS CURRENT USING THE QUOTATION SYSTEM PROVIDED SOFTWARE.

FIG. 2A

THE QUOTATION SYSTEM USES THE VENDOR'S QUOTATIONS TO PREPARE E-MAIL FOR THE REQUESTING BUYER. THE E-MAIL CAN BE FORMATTED USING HTML CODES TO PERMIT THE BUYER TO DISPLAY ITS E-MAIL AS IF IT WERE AN HTML PAGE. IN THIS WAY THE E-MAIL RESPONSE WILL HAVE HTML HYPERTEXT CAPABILITY AND ENABLE THE BUYER TO SELECT OPTIONS FROM THE HTML CODED E-MAIL FOR CONVENIENT PROCESSING OF THE QUOTATIONS. SUCH OPTIONS MAY INCLUDE SENDING AN ELECTRONIC PURCHASE ORDER IN RESPONSE TO A VENDORS QUOTATION AND REQUESTING THAT APPROPRIATE CREDIT INFORMATION OF THE BUYER BE PROVIDED TO THE VENDOR FROM RECORDS KEPT BY THE QUOTATION SYSTEM. APPLICATION HELPER SOFTWARE CAN BE PROVIDED BY THE QUOTATION SYSTEM TO SYSTEM MEMBERS FOR CONVENIENT PROCESSING OF HTML E-MAIL RESPONSES.

FIG. 2B

A VENDOR MAY POST SPECIAL SALE ITEMS TO THE QUOTATION SYSTEM VIA THE INTERNET OR OTHERWISE. IN TURN THE SYSTEM WILL FORWARD THE SPECIAL SALE OFFERS TO ANY USER WHO REGISTERS OR HAS REGISTERED THEIR INTEREST IN RECEIVING SALE OFFERS FOR THE PRODUCT OR CATEGORY BEING OFFERED BY THE VENDOR, PROVIDED THE USER MEETS THE VENDOR'S AND THE QUOTATION SYSTEM'S FILTER REQUIREMENTS.

FOR EXAMPLE, COMPUTER CITY COMMUNICATES TO THE QUOTATION SYSTEM A SPECIAL SALE ON IBM TYPE PERSONAL COMPUTER MONITORS.

IF A SYSTEM MEMBER PRE-REGISTERED ITS INTEREST IN RECEIVING OFFERS FOR PERSONAL COMPUTER MONITORS (e.g. VIA THE QUOTATION SYSTEM'S INTERNET SITE), THE SYSTEM WILL E-MAIL THE COMPUTER CITY SALE INFORMATION TO THE SYSTEM MEMBER'S E-MAIL ADDRESS PROVIDED THE MEMBER IS LOCATED IN A VENDOR SPECIFIED AREA.

*FIG. 3*

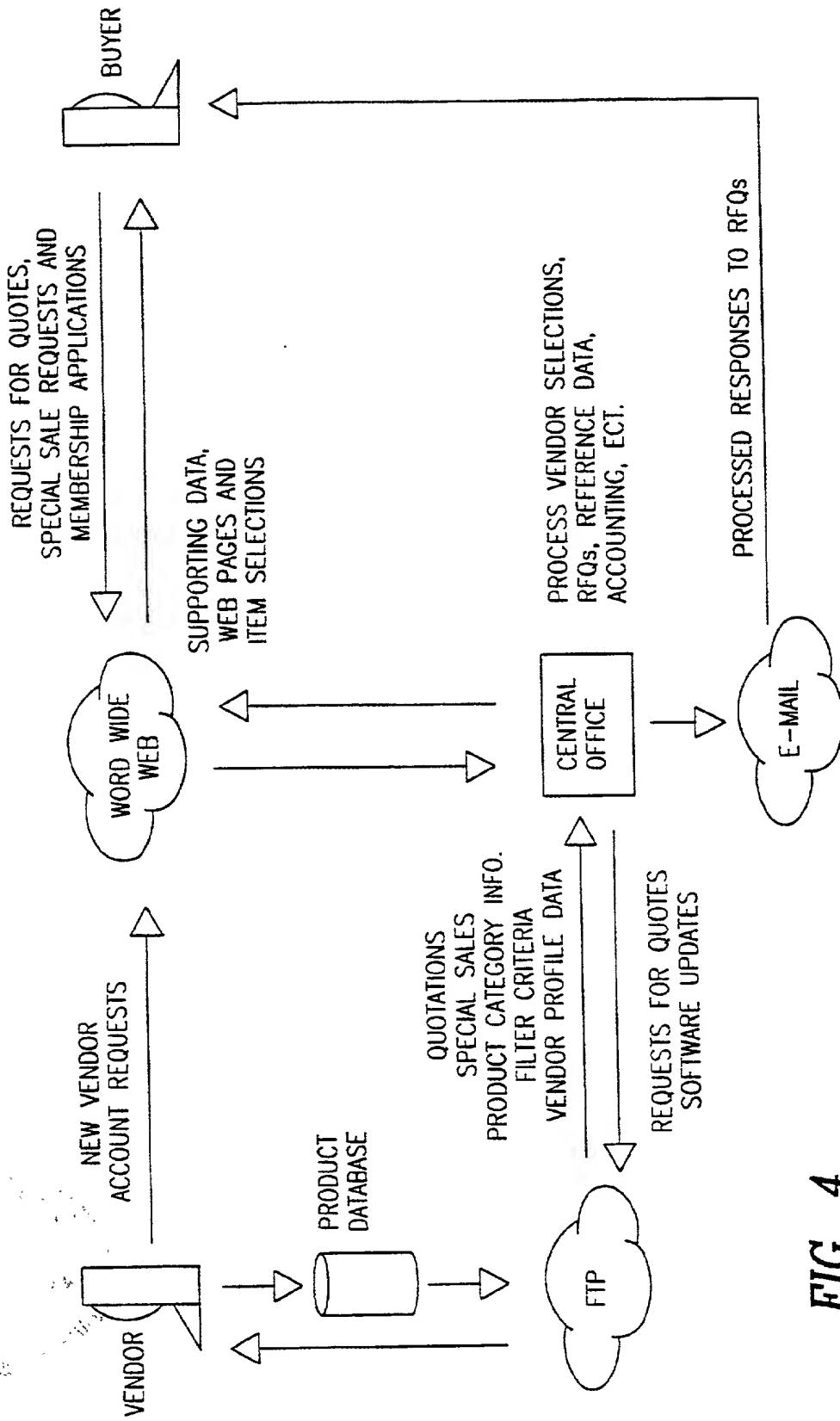
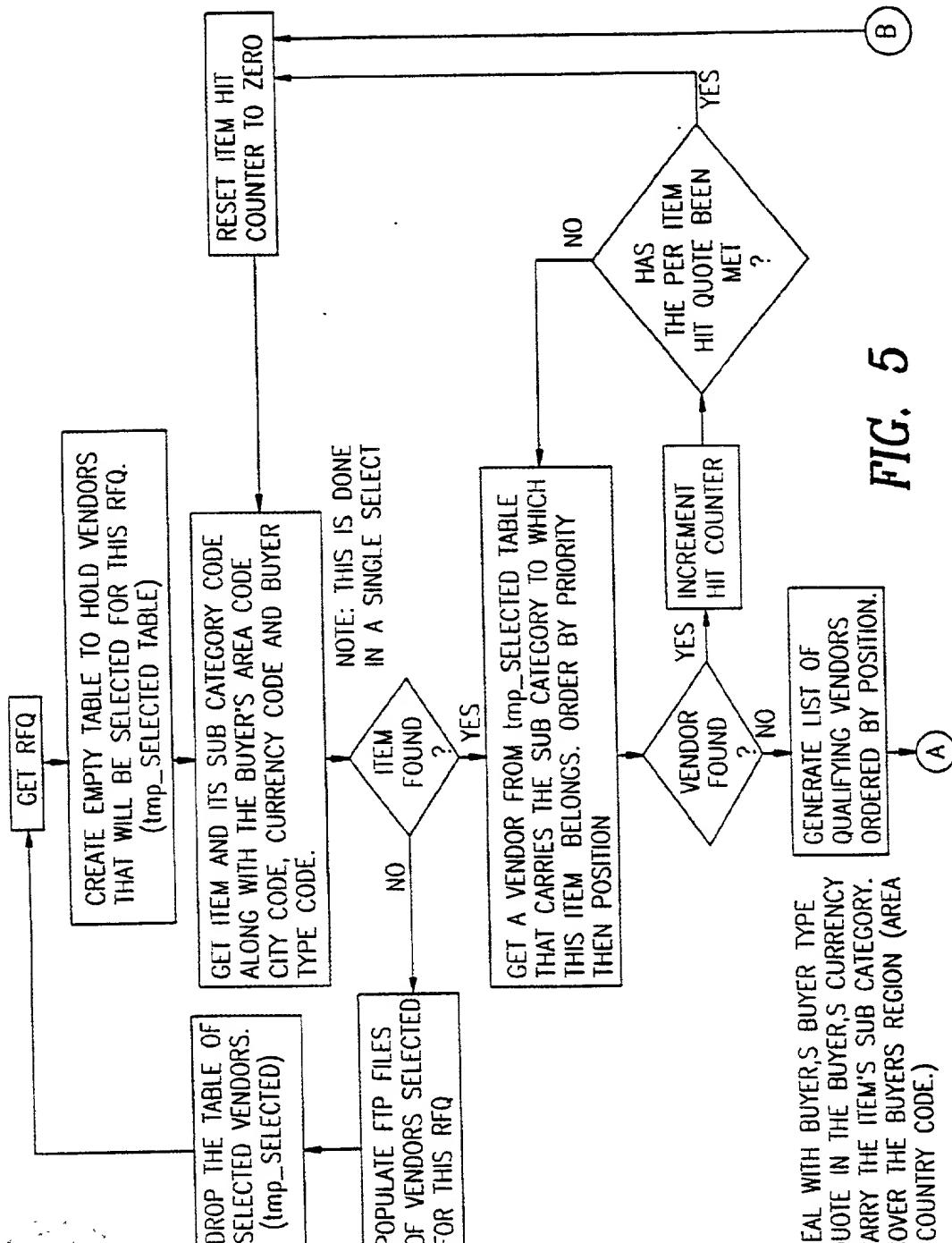


FIG. 4



1. THEY DEAL WITH BUYER'S BUYER TYPE
2. THEY QUOTE IN THE BUYER'S CURRENCY
3. THEY CARRY THE ITEM'S SUB CATEGORY.
4. THEY COVER THE BUYERS REGION (AREA CODE OR COUNTRY CODE.)

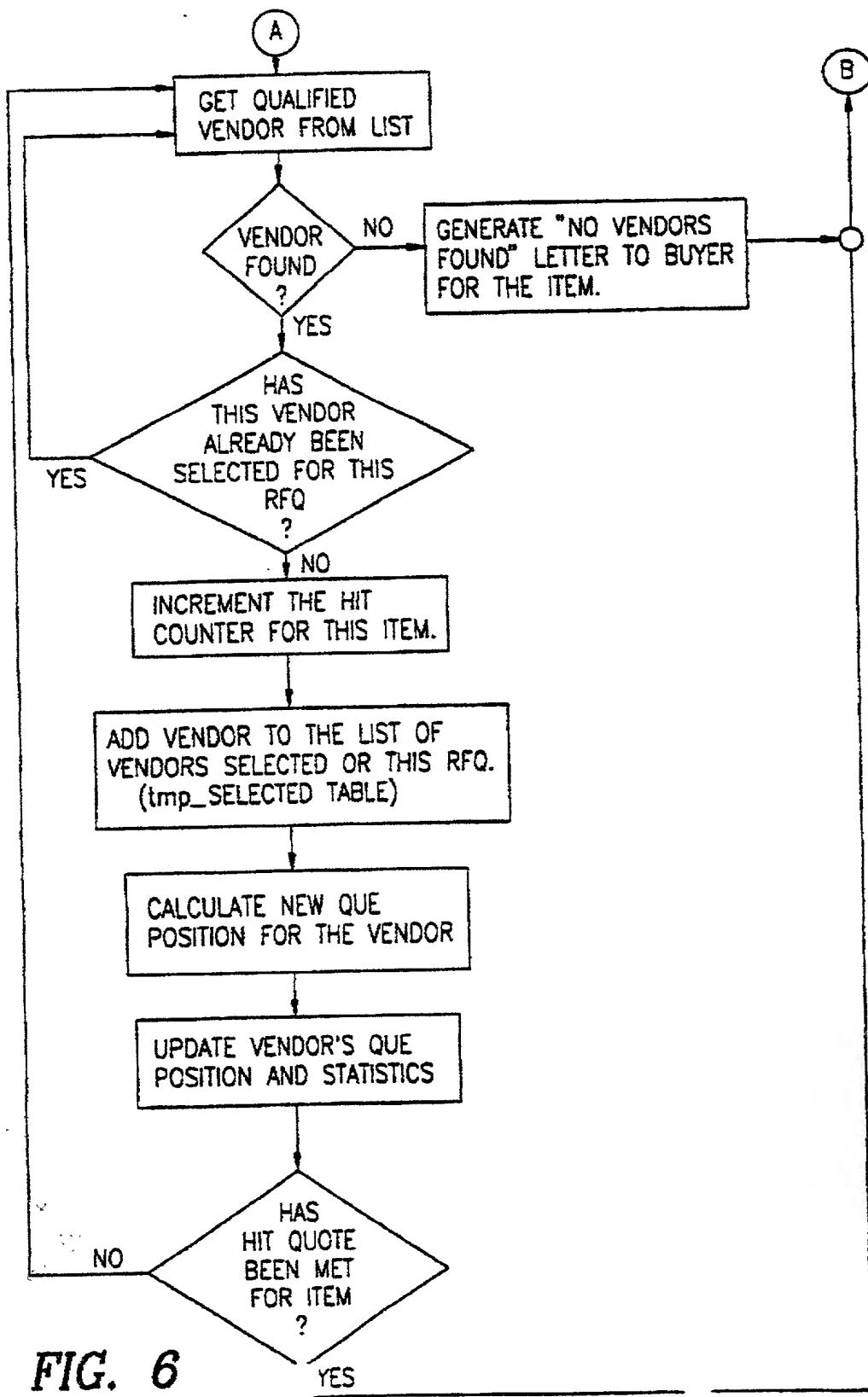


FIG. 6

SAMPLE BUYER'S DATA PACKET

- BUYER'S IDENTIFICATION (CODE)
- TRACKING NUMBER
- DATE AND TIME
- PRODUCT IDENTIFICATION
- QUANTITY
- SHIP METHOD
- SHIP DESTINATION
- VENDOR QUALIFICATIONS (FILTER CONDITIONS)
- BUYER'S NOTES

NOTE: BUYER'S FILTER CONDITIONS MIGHT INCLUDE LANGUAGE SPOKEN, CURRENCY OF QUOTATION, TYPE OF VENDOR (e.g. MANUFACTURER, DISTRIBUTOR, RETAILER, ECT.), OR LOCATION OF THE VENDOR.

VENDOR ADDS TO THE DATA PACKET

- VENDORS IDENTIFICATION (CODE)
- QUOTATION NUMBER
- QUOTATION DATE
- QUOTATION EXPIRATION
- PRICE PER UNIT
- TOTAL PRICE
- TAXES
- SHIPPING CHARGE
- DELIVERY TIME
- VENDOR'S NOTES

NOTE: VENDOR'S FILTER QUALIFICATIONS FOR BUYERS CAN BE REGISTERED WITH THE QUOTATION SYSTEM CENTRAL OFFICE IN ADVANCE ENABLING THE CENTRAL OFFICE TO FILTER BUYER'S RFQS AND PROVIDE VENDORS WITH FILTER QUALIFIED BUYERS.

	PRICE QUOTATION	TRACKING NO : 1016
RFQ DATE:	07/02/1993	ROUTING TO : NEW JERSEY
PROD. TYPE NO.:	12432	PROD. CODE : 4800
PROD. CATEGORY :	RESISTORS	
PRODUCT NAME :	TYPE J RESISTOR 5%	
PRODUCT NUMBER :	OH006-2000656	
MANUFACTURER :	OHMITE	
QUANTITY :	5,000	PIECES
NOTES :	DELIVERY DATE IS FIRM.	DELIVERY DATE : 08/01/1993
QUOTE DATE :	07/03/1993	VENDOR NO. : 456546
VENDOR NAME :	ACME RESISTOR SUPPLY, INC.	
CONTACT :	JOHN MURRAY	UNIT PRICE : 0.28
VENDOR PHONE :	515 222-3333	5,000 PIECE = 1,400.00
VENDOR FAX :	515 222-3056	SALES TAX : 0.00
CAN SHIP BY :	07/03/1993	UPS GROUND : 26.00
		= ======
		= 1,426.00

VENDOR NOTES : SHIPPED 1000 PER BOX FROM INVENTORY, SUBJECT TO PRIOR SALE.

ACCEPT/REJECT QUOTE :

FIG. 8

**REISSUE DECLARATION AND POWER OF ATTORNEY**

I, Joseph Giovannoli, hereby declare that:

I am a citizen of U.S.A. and a resident of 30 Bayberry Dr., Saddle River, New Jersey 07458.

I believe I am the original, first and sole inventor of the invention or discovery in COMPUTERIZED QUOTATION SYSTEM AND METHOD described and claimed in United States Letters Patent No. 5,842,178 and in the forgoing specification and claims, and for which improvement I solicit a reissued patent.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to the examination of this application in accordance with Title 37 Code of Federal Regulations, § 1.56.

I further state declare that said Letters Patent No. 5,842,178, of which the original patent certificate is submitted herewith and which I herewith offer to surrender, are partly inoperative by reason of my claiming less than I had the right to claim in the patent, specifically, by failing to claim the invention disclosed in Col. 5, Line 40 – Col. 6, Line 14, and more specifically, in Col. 5, Line 65 – Col. 6, Line 11, of the specification, regarding to a method of using hypertext link containing page to effectuate a purchase.

All errors, which are being corrected in the present reissue application up to the time of filing of this Declaration arose without any deceptive intention on my part.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint Jeffrey I. Kaplan (Reg. No. 34,356) whose address is KAPLAN & GILMAN, L.L.P., 900 Route 9 North, Woodbridge, New Jersey 07095 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. Send correspondence to KAPLAN & GILMAN, L.L.P., 900 Route 9 North, Woodbridge, New Jersey 07095. Direct correspondence and telephone calls to (732) 634-7634.

Full name of the inventor: Joseph Giovannoli

Inventor's signature: Joseph Giovannoli

Date: 4-27-00

Address: 30 Bayberry Dr., Saddle River, New Jersey 07458, U.S.A.

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